CCA GCA ACC AAT GAT GCC CGT T-TAMRA-3' CA GCA ACC AAT GAT GCC CGT T-TAMRA-3'

CCA GCA AGC ACT GAT GCC TGT T-TAMRA-3' CA GCA AGC ACT GAT GCC TGT T-TAMRA-3'

## Fig. 1A

#### Fluorescent Dyes

	Absorbance Maxima	Emission Maxima
Fluorescein	494nm	525nm
Tetrachloro fluorescein	521nm	536nm
TAMRA	565nm	580nm

# Fig. 1B

#### **Cleaved Fragments:**

Fig. 1C

 $NO_2$ 오

H000 176 **.**COOH F. 151 YCOOH H000 138 соон о̀ 오 H000  $\overline{0}$ 122 ರ

,COOH

226

214

198

191

NO<sub>2</sub>

H000

H000

181

0:

F<sub>3</sub>C CF<sub>3</sub> HO.

H000,

309

258

249

Fig. 2

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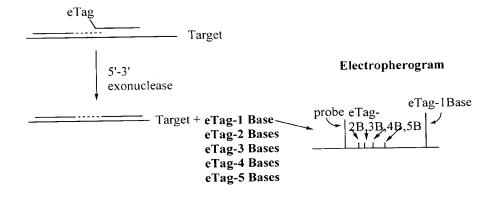


Fig. 3A

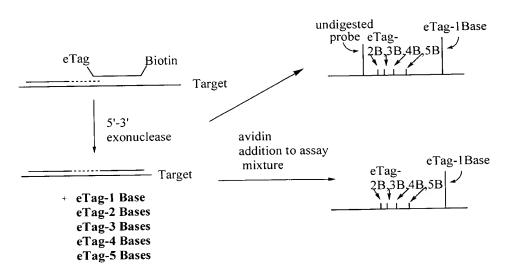


Fig. 3B

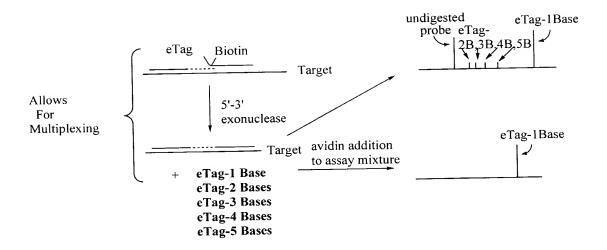


Fig. 3C

Fig. 3D

grap, grap, grap, man, grap, man, grap, gr

APPROVED LOG FIG.		FIG.
1:	1.3	SUBCLASS
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ferth plant party was press that the plant plant of the plant plan

Fig. 4

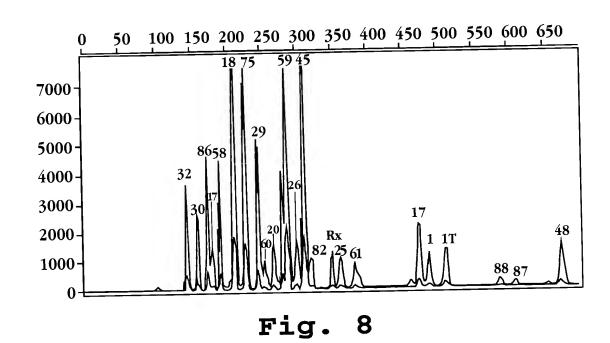
e-tag Reporter	Elution Time on CE, min	Mass
HN O O O O O O O O O O O O O O O O O O O	6.4	778
CI CI COOH NH-	ժ <sub>2</sub> N 7.1	925
CI CI OH NH2 OH CI OH	7.3	901
HO O O O O O O O O O O O O O O O O O O	7.7	994
CI CI COOH  O CI  HN  OMe OMe O-P-O  NH  HO. O O	8.0	985
HO O O O O O O O O O O O O O O O O O O	9.25	961

Fig. 5

e-tag Reporter	Charge	Elution Time, min
O Fluorescein		40.41
HN () O-P-C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> -	dC -8	12.1*
O <sub>s</sub> Fluorescein		
O-P-O-C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> C	C <sub>6</sub> C <sub>6</sub> — -9	12.7
OFFIGORESCEIL		
$ \begin{array}{c} \text{HN} \\ \text{O-P-O-C}_6 \text{C}_6 \text{C}_6 \text{C}_6 \end{array} $	C <sub>6</sub> — -8	12.8
O Fluorescein		
O Fluorescein O HN O P-O-C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> C	-7	13.1
O Fluorescein		
O Fluorescein O HN () O-P-O-C <sub>3</sub> C <sub>3</sub> C <sub>9</sub> —	-6 dC	13.0
O Fluorescein O		12.4
O Fluorescein O $+N$ O $-P$ O $-C_6C_6C_6$ O $-P$	-6	13.4
O <sub>⊷</sub> Fluorescein		
HN ( 0-P-0-C <sub>3</sub> C <sub>3</sub>	<b>-5</b>	12.8*
O Fluorescein	_	12.3*
OFFluorescein  OFFluorescein  OFF-O-C <sub>3</sub> C <sub>9</sub> OFF-O-C <sub>3</sub> C <sub>9</sub>	-5 dC	13.2*
O Fluorescein		140
O Fluorescein  HN ( ) O -P-O-C <sub>9</sub> C <sub>9</sub> O -Fluorescein	<b>-5</b>	14.8
O Fluorescein	dC	
O Fluorescein O HN O P-O TTTdC	-6	17.3
O Fluorescein		
HN (-) O-P-O-TTdC	-5	17.0
O Fluorescein		
HN ( ) 0-P-0-C <sub>9</sub>	- <b>4</b> it	15.2*
OFluorescein		
O Fluorescein O -P-O-TdC	-4	16.5
y 0-	Fig. 6	

And the first term and the first

Fig. 7



professional et al.	
APPRIA .	T. FIG.
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ROOC COOR N
OCE

$$X = \text{halogen}$$

HOOC
 $X = \text{halogen}$ 
 $X = \text{halogen}$ 

Fig. 9

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(9 negative charges per coupling)

Fig. 10

HO CO OH Pyridine HOOC HOOC, 
$$CH_2Cl_2$$

HOOC HOOC HOOC DCC,  $CH_2Cl_2$ 

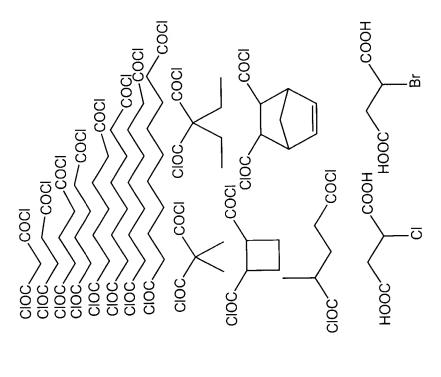
HOOC HOOC CEO P-N

95% no purification

Fig. 11

Fig. 12

Fig. 13



Ä

HO,HO

HO,HO.

Ŕ

-CONH<sub>2</sub>

OH H<sub>2</sub>N\_

 $H_2N$ 

 $H_2N$ 

EH3H H2N

 $H_2N$ 

SBnOMe OH

 $\begin{array}{ccc} \text{SBn} \\ \text{OH} & \text{H}_2\text{N} \\ \end{array}$ 

 $H_2N$ 

`S' OH H<sub>2</sub>N<sub><</sub>

 $H_2N$ 

Fig. 14

thank their parts there were present the first trans-

Hand dans dad H H ding

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COOH 4 NH ON ON O 7 Sy, O, P,O ON O JS(), OP-O-VNO 10

Fig.

15

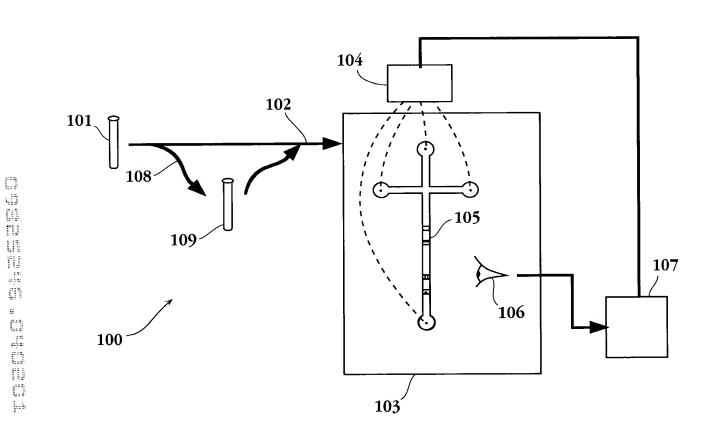


Fig. 16

#### ACLA002

#### ACLA003

#### ACLA004

## ACLA005

## ACLA006

## ACLA007

#### ACLA008

#### ACLA009

#### ACLA010

## ACLA011

## ACLA012

Fig. 17A

gerig gener prief, mark from versit fe the priese gerief of the gerief with the first state of the gerief of the g

## ACLA014

## ACLA015

## ACLA016

#### ACLA017

## ACLA018

## ACLA019

#### ACLA020

## ACLA021

#### ACLA022

## ACLA023

## ACLA024

Fig. 17B

## ACLA026

#### ACLA027

## ACLA028

## ACLA029

## ACLA030

## ACLA031

## ACLA032

O Fluorescein 
$$C_3C_3C_3C_3C_3C_3$$
  $C_3$ 

#### ACLA033

#### ACLA034

## ACLA035

## ACLA036

Fig. 17C

# O Fluorescein HN O C C C

#### ACLA038

## ACLA039

#### ACLA040

Fluorescein

## ACLA041

## ACLA042

#### ACLA043

#### Fluorescein

#### ACLA044

#### Fluorescein

#### ACLA045

#### Fluorescein

## ACLA046

#### Fluorescein

## ACLA047

#### Fluorescein

# Fig. 17D

The first that the control first the first that

gently to the proof that the collection of the c

ACLA048

Fluorescein

ACLA049

Fluorescein

ACLA050

ACLA051

ACLA052

ACLA053

ACLA054

O Fluorescein 
$$C_4C_4C_4$$
  $C_4$   $C_4$ 

ACLA055

ACLA056

ACLA057

ACLA058

ACLA059

Fig. 17E

#### ACLA061

## ACLA062

## ACLA063

## ACLA064

## ACLA065

## ACLA066

## ACLA067

## ACLA068

## ACLA069

Fig. 17F

Fig. 17G

## ACLA080

#### ACLA081

# 0-C4C4C4-dC

#### ACLA082

## ACLA083

#### ACLA084

## ACLA085

#### ACLA086

#### ACLA087

#### ACLA088

# Fig. 17H

the first state with the second of the first state of the first state

April 11 and from their the print of the first of the control of t

Hart tree to be disting

į.

## ACLA089

#### Fluorescein

$$C_3C_3TC_3$$
 d T  $C_9$   $C_9$   $C_9$ 

## ACLA090

#### Fluorescein

$$C_3C_3C_3TC_3$$
 d T  $C_9$  d  $C_9$ 

#### ACLA091

#### Fluorescein

$$C_{12}T$$

## ACLA092

#### Fluorescein

## ACLA093

#### Fluorescein

## ACLA094

#### Fluorescein

$$C_{12}$$
  $C_{12}$   $C_{12}$   $C_{12}$   $C_{12}$   $C_{12}$   $C_{12}$ 

#### ACLA095

#### O Fluorescein

#### ACLA096

#### ACLA097

Fig. 17I

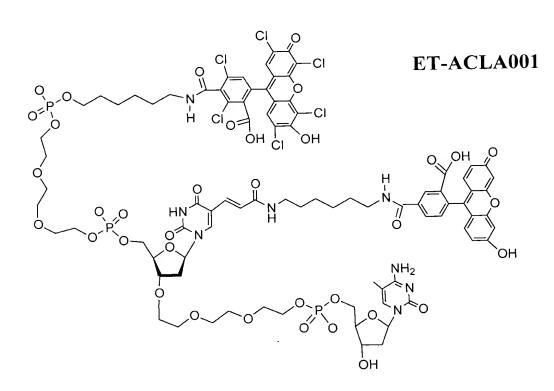
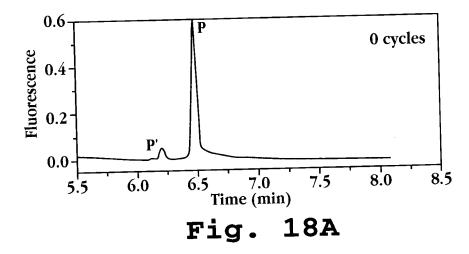
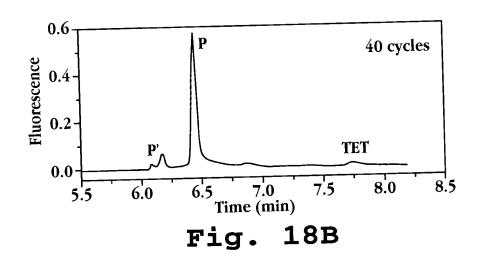
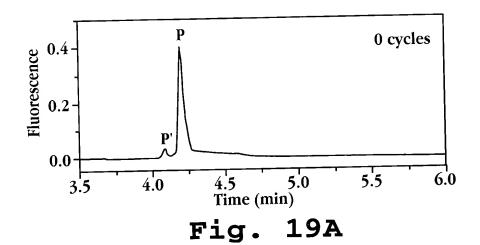
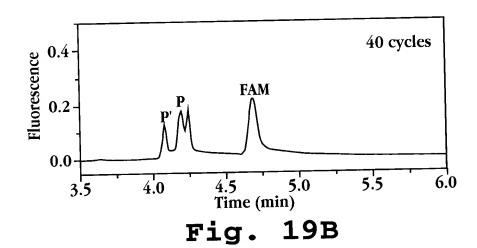


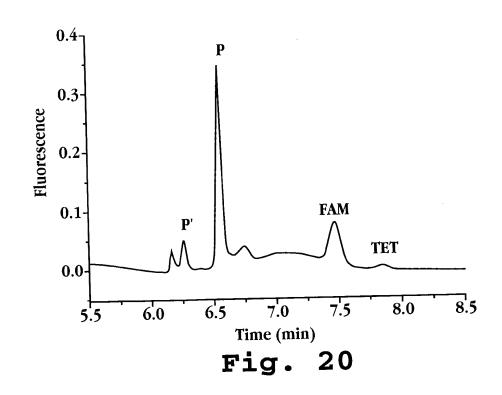
Fig. 17J













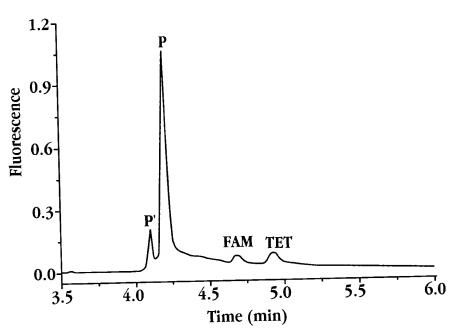


Fig. 21

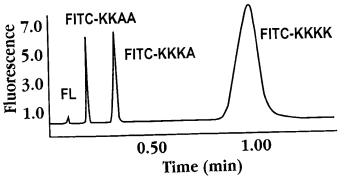


Fig. 22

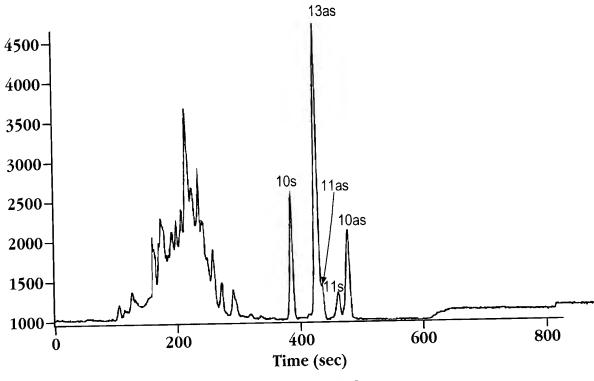


Fig. 23A

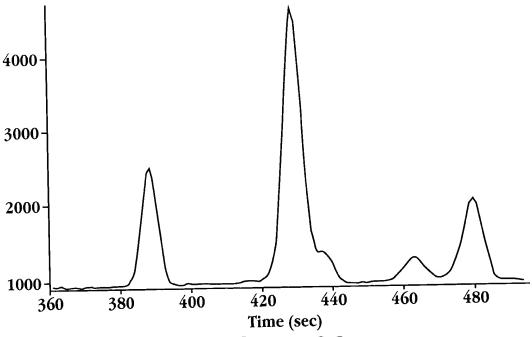
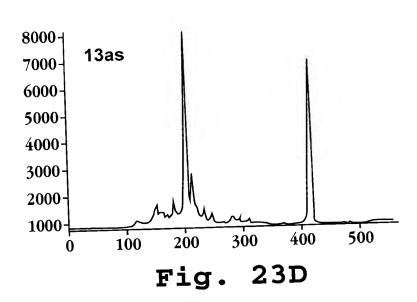
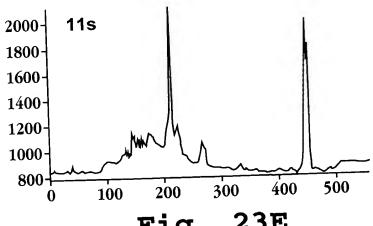


Fig. 23B





23E Fig.

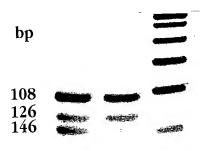


Fig. 23F

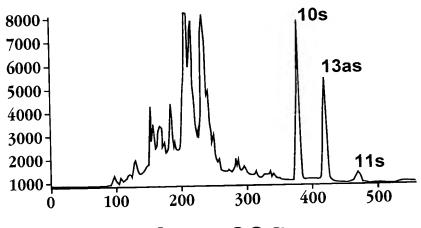


Fig. 23G



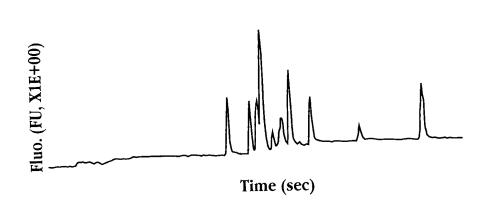


Fig. 24

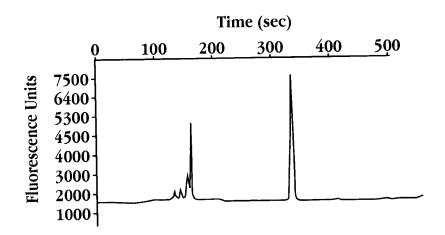


Fig. 25A

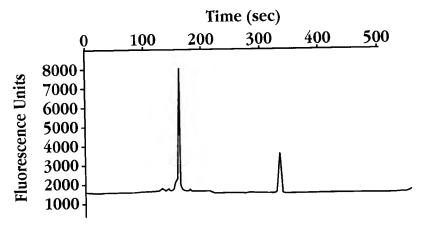


Fig. 25B

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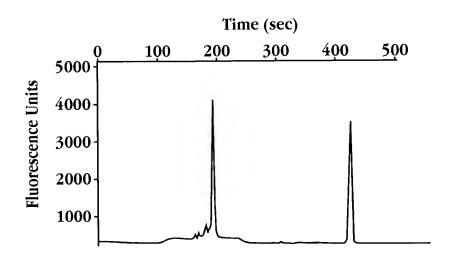


Fig. 25D

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the dust they will first the start the

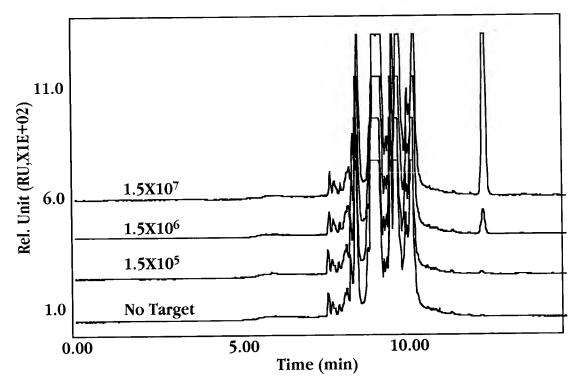
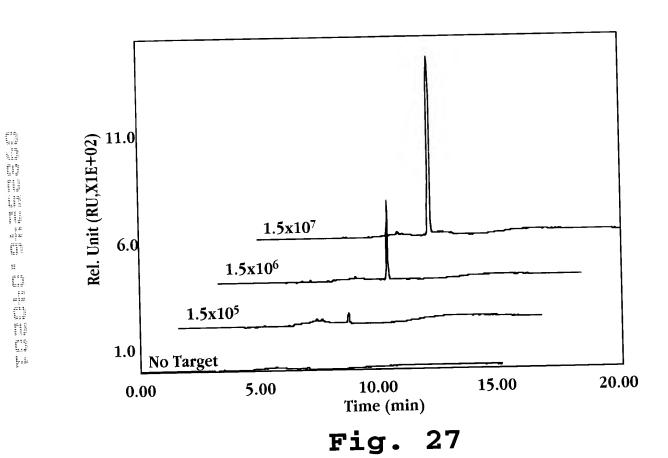


Fig. 26

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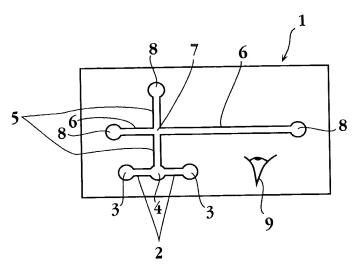


Fig. 28A

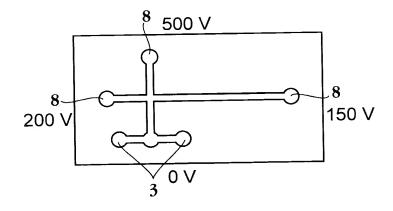


Fig. 28B

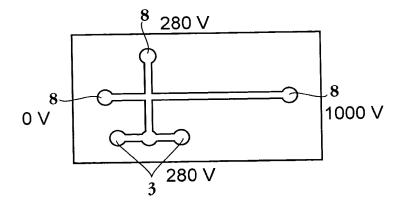


Fig. 28C



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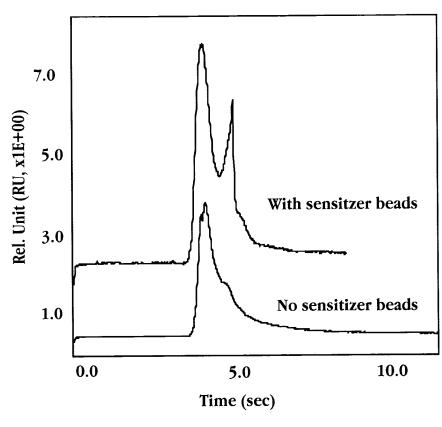
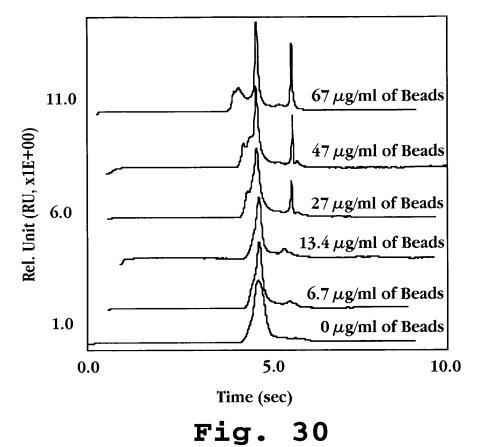


Fig. 29



हिंक, हार्रीने क्रियों, क्रम्यों, हार्रीमा राज्यों, क्षेत्रित राज्यों, क्षेत्रित राज्यों, क्षेत्रित राज्यों, क्षेत्रित राज्यों, क्षेत्रित राज्यां क्राचित राज्यां क्षेत्रित राज्यां क्षेत्रित राज्यां क्षेत्रित राज्यां क्षेत्रित राज्यां क्षेत्रित राज्यां क्षेत्रित राज्यां क्षेत

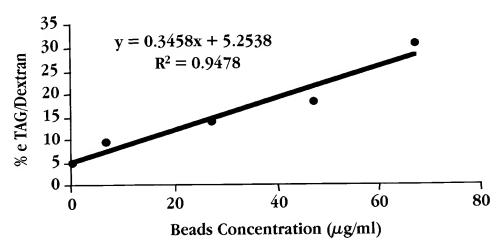


Fig. 31

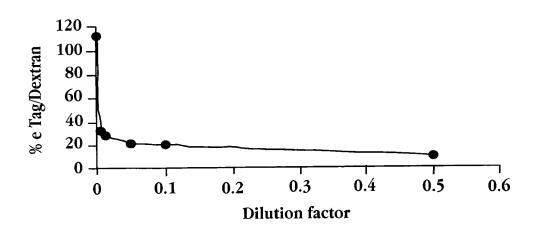


Fig. 32

APIGE.

FIG.

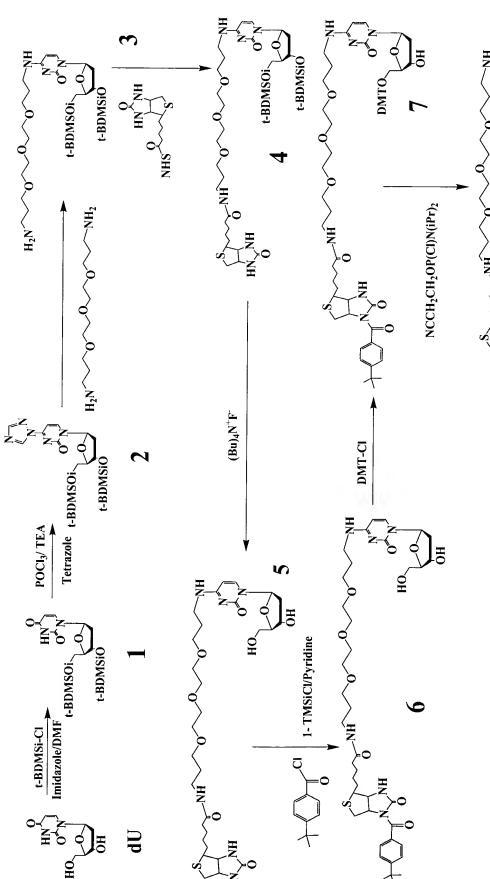


Fig. 33

NHBz 'NHBZ  $2-(Bu)_4NF$ H<sub>2</sub>N~0~0~0~N<sub>2</sub>H t-BDMSiO H<sub>2</sub>N~0~0~0~NH<sub>2</sub> 1 t-BDMSi-CI NCCH2CH2OP(CI)N(iPr)2 NHBz ÓН NHBz DMT0 1. Br<sub>2</sub>/NaOAc Buffer/ pH5 3- DMT-CI/ pyridine 2. TMS-Cl/ BzCl dRb Ч

Fig. 34